

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058021 A2

(51) International Patent Classification⁷: **A01H**

(21) International Application Number:
PCT/US2004/042981

(22) International Filing Date:
17 December 2004 (17.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/530,828 17 December 2003 (17.12.2003) US

(71) Applicants (for all designated States except US): **AGRI-
NOMICS LLC** [US/US]; 16160 S.W. Upper Boones Ferry
Road, Portland, Oregon 97224-7744 (US). **DAVIES, John
P.** [US/US]; 4617 S.E. Madison Street, Portland, Oregon
97215 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIGHTNER,
Jonathan** [US/US]; 28750 S. Heisinger Lane, Mulino,
Oregon 97042 (US). **CLENDENNEN, Stephanie K.**
[US/US]; 148 Lebanon Road, Kingsport, TN 37663 (US).

(74) Agents: **SALE, Terri, L.** et al.; Exelixis, Inc., P.O. Box
511, 170 Harbor Way, South San Francisco, California
94083-0511 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: GENERATION OF PLANTS WITH ALTERED OIL CONTENT

(57) Abstract: The present invention is directed to plants that display an altered oil content phenotype due to altered expression of a HIO30.5 nucleic acid. The invention is further directed to methods of generating plants with an altered oil content phenotype.



WO 2005/058021 A2